FIG. 1

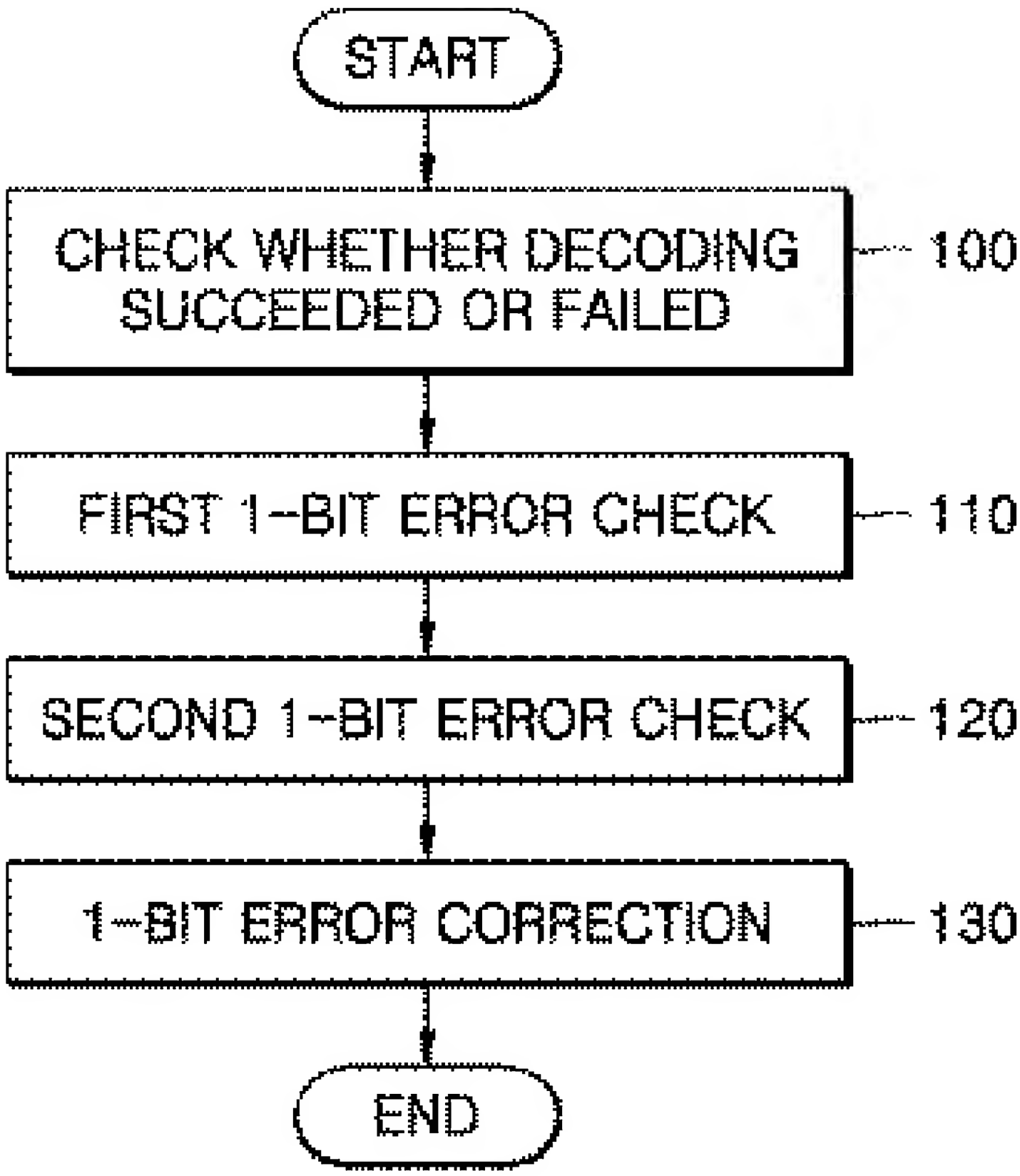

START
CHECK WHETHER DECODING SUCCEEDED OR FAILED
100
FIRST 1-BIT ERROR CHECK
110
SECOND 1-BIT ERROR CHECK
120
1-BIT ERROR CORRECTION
130
END

FIG. 2

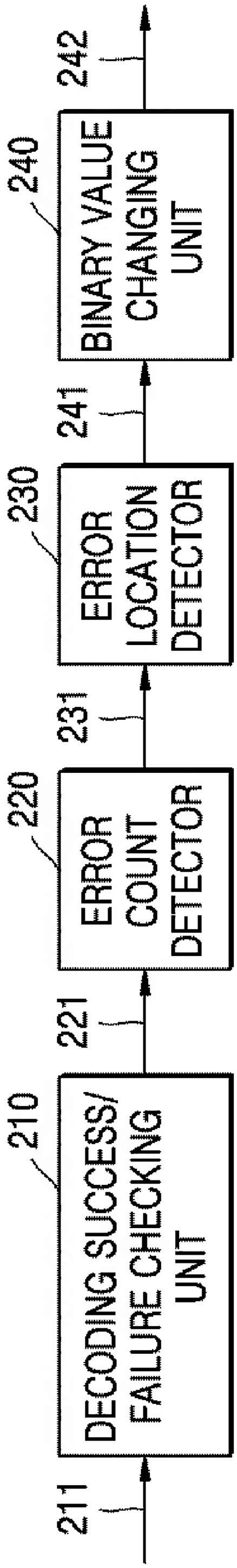

210
DECODING SUCCESS/ FAILURE CHECKING UNIT
211
221
220
ERROR COUNT DETECTOR
231
230
ERROR LOCATION DETECTOR
241
240
BINARY VALUE CHANGING UNIT
242

FIG. 3

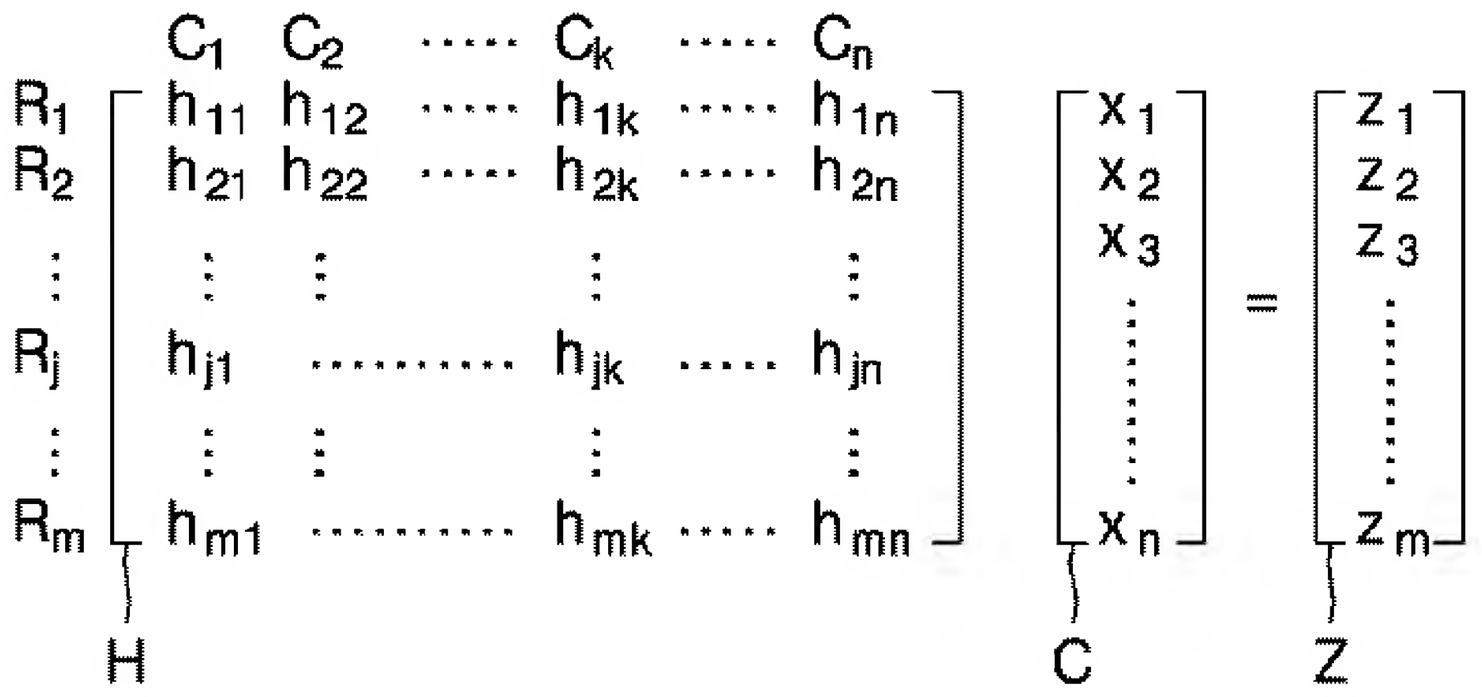

C1 C2 ..... Ck ..... Cn
R1 h11 h12 ..... h1k h1n
R2 h21 h22 ..... h2k h2n
Rj hj1 ..... hjk ..... hjn
Rm hm1 ..... hmk ..... hmn
H
x1 x2 x3 ... xn
C
=
z1 z2 z3 ... zm
Z

FIG. 4

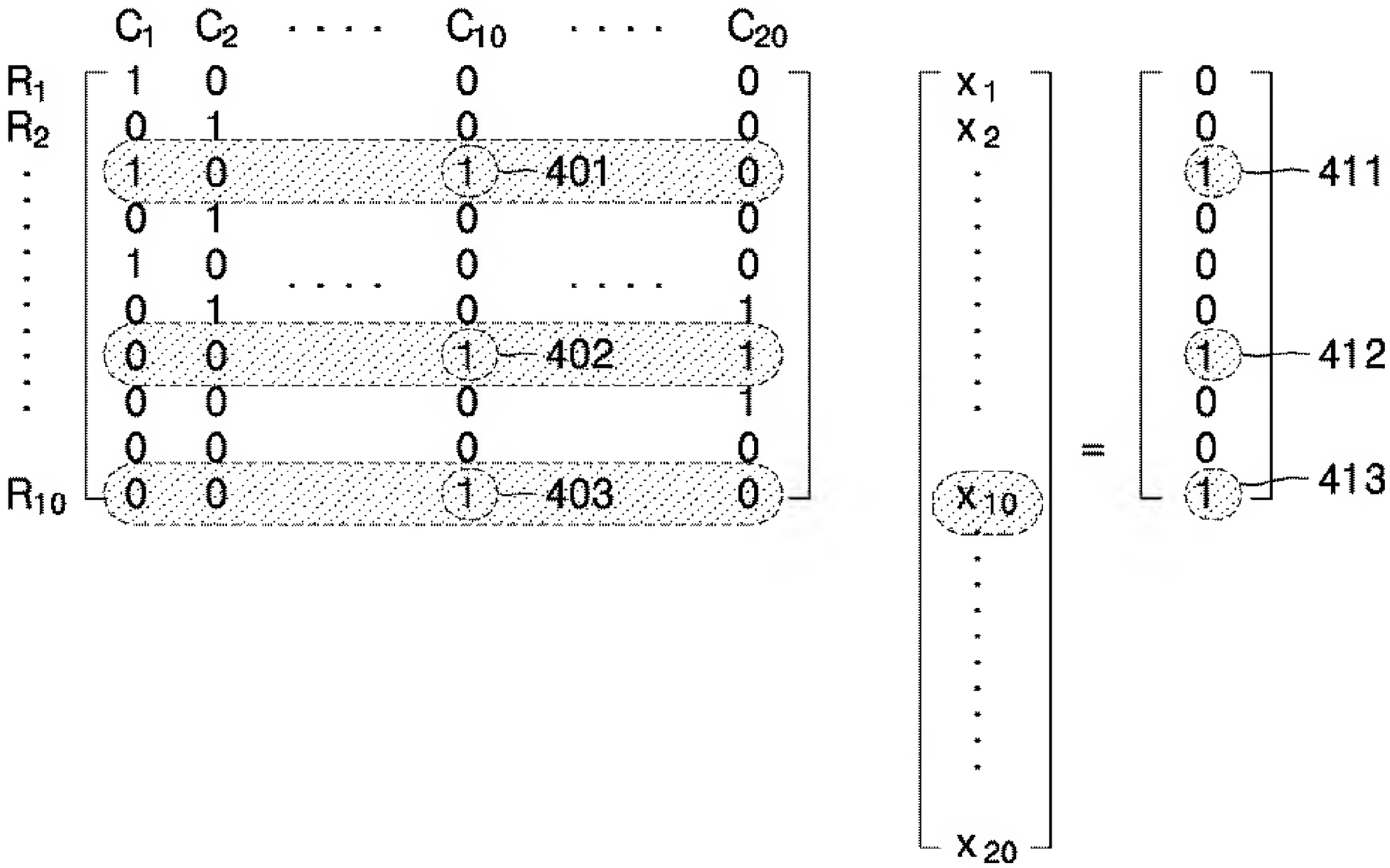
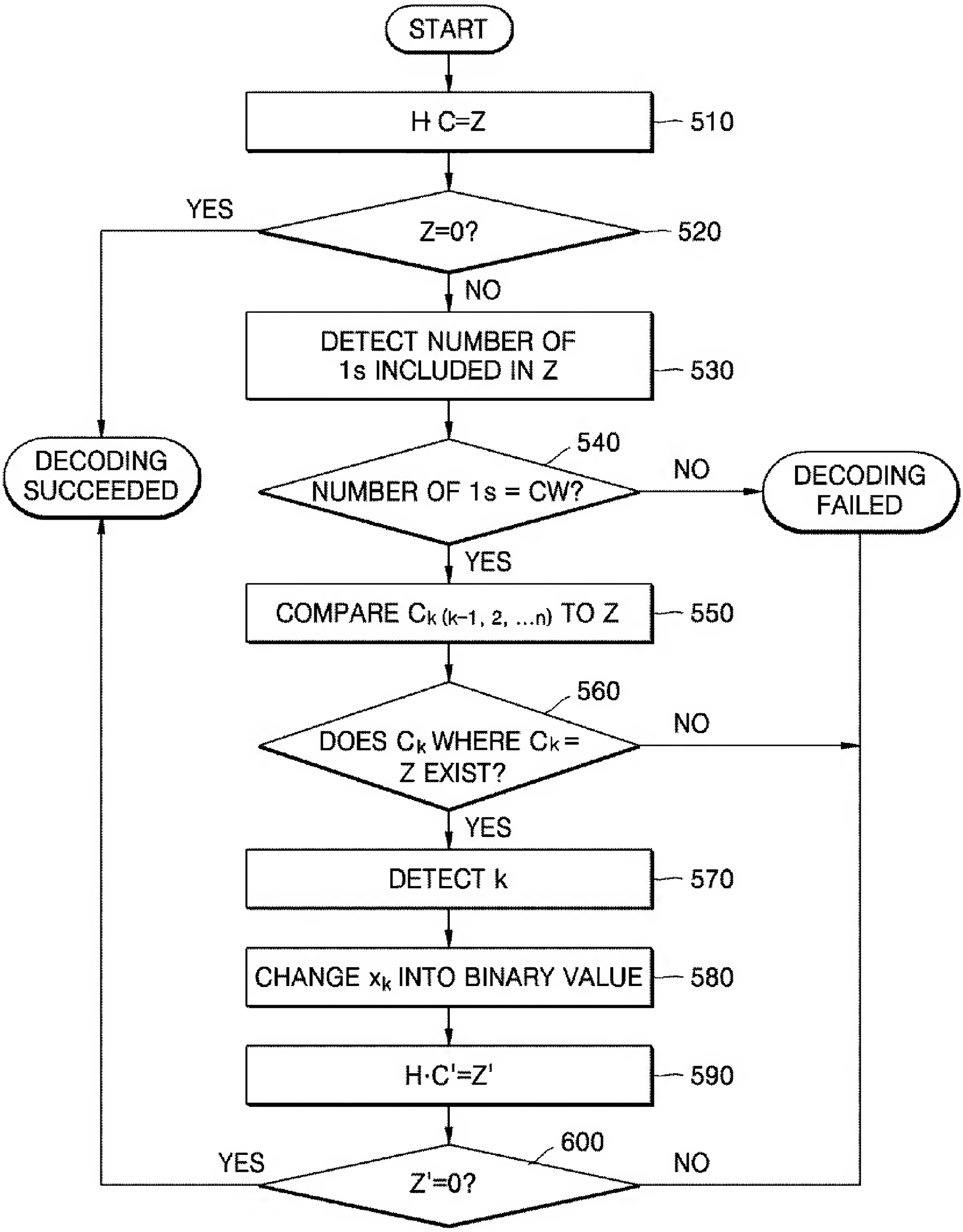

C1 C2 .... C10 .... C20
R1
R2
R10
401
402
403
x1 x2 ... x10 ... x20
=
411
412
413

FIG. 5


START
H·C=Z
510
YES
Z=0?
520
NO
DETECT NUMBER OF 1s INCLUDED IN Z
530
DECODING SUCCEEDED
540
NUMBER OF 1s = CW?
NO
DECODING FAILED
YES
COMPARE Ck (k-1, 2, ...n) TO Z
550
560
DOES Ck WHERE Ck = Z EXIST?
NO
YES
DETECT k
570
CHANGE xk INTO BINARY VALUE
580
H·C'=Z'
590
600
YES
Z'=0?
NO